



The Mizoram Gazette

EXTRA ORDINARY

Published by Authority

RNI No. 27009/1973

Postal Regn. No. NE-313(MZ) 2006-2008

VOL - LII Aizawl, Friday 2.6.2023, Jyaishta 12, S.E. 1945, Issue No. 297

NOTIFICATION

No.A.42011/6/2022-HFW, the 31st May, 2023. In the interest of public service, the competent authority is pleased to notify Syllabus for Direct Recruitment to the post of Grade-I of MHS under Super Specialist Sub-Cadre (Department of Nephrology) under Health & Family Welfare Department as per Appendix.

This supersedes the previous notification of even no. dated 29.11.2022.

Esther Lal Ruatkimi,
Principal Secretary to the Govt. of Mizoram,
Health & Family Welfare Department.

APPENDIX

SYLLABUS FOR GRADE-I OF MHS (SUPER SPECIALIST SUB-CADRE - NEPHROLOGY) UNDER HEALTH & FAMILY WELFARE DEPARTMENT

PAPER-I

Total marks - 200
Duration - 3 hours

PART-A

- Current events of national and international importance.
- Indian Polity and Indian Constitution.
- General issues on Environmental Ecology, Bio-diversity and Climate Change - that do not require subject specialization.
- General awareness on Mizo culture, its heritage and society.
- Interpersonal skills including communication skills.
- Logical reasoning and analytical ability.
- Decision-making and problem-solving.

PART B

- | | | | |
|-----|-----------------------|---|----------|
| (a) | Essay writing | - | 25 marks |
| (b) | Precis writing | - | 15 marks |
| (c) | English Comprehension | - | 20 marks |
| (d) | General English | - | 40 marks |

Note:

1. Part A will carry 100 marks. Questions will be set and answered in English only and of Multiple Choice Questions (MCQ) without negative marking. There will be 50 questions carrying 2 (two) mark each.
2. Part B will carry 100 marks and questions will be set in conventional type questions.

Paper II, Paper III and Paper IV shall be classified as Technical Papers.

Note:

1. Questions will be set and answered in English only and of conventional type questions.
2. Duration of the examination for each of the Technical paper will be 2 (two) hours.

PERSONAL INTERVIEW:

The total marks allotted for personal interview for the post of Grade-I of Mizoram Health Service (Super-Specialist Sub-Cadre) shall be as prescribed by the Commission.

PAPER-II (TECHNICAL)

Total marks - 200

- I. Renal Anatomy and Physiology (20 marks)
 1. Renal Anatomy
 2. Renal Physiology
- II. Investigation of Renal Disease (30 marks)
 1. Assessment of Glomerular Filtration Rate
 2. Urinalysis
 3. Imaging
 4. Renal Biopsy
- III. Fluid and Electrolyte Disorders (50 marks)
 1. Disorders of Water Balance
 2. Disorders of Sodium Balance
 3. Disorders of Potassium Balance
 4. Disorders of Calcium and Phosphate Metabolism
 5. Metabolic Acidosis
- IV. Hereditary and Congenital Diseases of the Kidney (50 marks)
 1. Autosomal Dominant Polycystic Kidney Disease
 2. Alport Syndrome
 3. Fanconi Syndrome
 4. Congenital Anomalies of the Kidney and Urinary Tract
- V. Urologic Disorders (50 marks)
 1. Nephrolithiasis and Nephrocalcinosis
 2. Urinary Tract Obstruction
 3. Urologic Issues for the Nephrologist

PAPER-III (TECHNICAL)

Total marks - 200

- I. Glomerular Disease (100 marks)
 1. Clinical Presentations
 2. Minimal Change Disease
 3. Primary and Secondary (Non-Genetic) Causes of Focal and Segmental Glomerulosclerosis
 4. Inherited Causes of Nephrotic Syndrome
 5. Membranous Nephropathy
 6. Membranoproliferative Glomerulonephritis and Cryoglobulinemic Glomerulonephritis
 7. Immunoglobulin A Nephropathy and IgA Vasculitis (Henoch-Schonlein Purpura)
 8. Anti-Glomerular Basement Membrane Disease and Goodpasture Disease
 9. Renal and Systemic Vasculitis
 10. Lupus Nephritis
 11. Thrombotic Microangiopathies, Including Hemolytic Uremic Syndrome
- II. Diabetic Kidney Disease (20 marks)
 1. Prevention and Treatment of Diabetic Kidney Disease
 2. Management of the Diabetic Patient With Chronic Kidney Disease
- III. Hypertension (30 marks)
 1. Evaluation of Hypertension
 2. Primary Hypertension
 3. Nonpharmacologic Prevention and Treatment of Hypertension
 4. Pharmacologic Treatment of Hypertension
 5. Treatment of Hypertensive Emergencies and Urgencies
 6. Endocrine Causes of Hypertension: Aldosterone
 7. Renovascular Hypertension and Ischemic Nephropathy ,
- IV. Pregnancy and Renal Disease (20 marks)
 1. Renal Physiology and Complications in Normal Pregnancy
 2. Pregnancy With Pre-existing Kidney Disease
- V. Infectious Diseases and the Kidney (30 marks)
 1. Urinary Tract Infections in Adults
 2. Tuberculosis of the Urinary Tract
 3. Fungal Infections of the Urinary Tract
 4. Human Immunodeficiency Virus Infection and the Kidney

PAPER- IV (TECHNICAL)

Total marks - 200

- I. Tubulointerstitial Diseases (20 marks)
 1. Acute Interstitial Nephritis
 2. Primary Vesicoureteral Reflux and Reflux Nephropathy
 3. Chronic Interstitial Nephritis
 4. Myeloma and the Kidney
- II. Acute Kidney Injury (30 marks)
 1. Etiology of Acute Kidney Injury
 2. Acute Kidney Injury in the Tropics

3. Diagnosis and Clinical Evaluation of Acute Kidney Injury
 4. Prevention and Non-dialytic Management of Acute Kidney Injury
 5. Dialytic Management of Acute Kidney Injury and Intensive Care Unit Nephrology
 6. Hepatorenal Syndrome
- III. Chronic Kidney Disease and the Uremic Syndrome (50 marks)
1. Epidemiology of Chronic Kidney Disease
 2. Pathophysiology of Disease Progression in Proteinuric and Nonproteinuric Kidney Disease
 3. Retarding Progression of Kidney Disease
 4. Clinical Evaluation and Management of Chronic Kidney Disease
 5. Anemia in Chronic Kidney Disease
 6. Bone and Mineral Disorders in Chronic Kidney Disease
 7. Gastroenterology and Nutrition in Chronic Kidney Disease
 8. Dermatologic Manifestations of Chronic Kidney Disease
- IV. Dialytic Therapies (50 marks)
1. Hemodialysis: Principles and Techniques
 2. Hemodialysis: Dialysis Prescription and Adequacy
 3. Acute Complications During Hemodialysis
 4. Peritoneal Dialysis: Principles, Techniques, and Adequacy
 5. Complications of Peritoneal Dialysis
- V. Transplantation (50 marks)
1. Immunosuppressive Medications in Kidney Transplantation
 2. Evaluation and Preoperative Management of Kidney Transplant Recipient and Donor
 3. Prophylaxis and Treatment of Kidney Transplant Rejection
 4. Medical Management of the Kidney Transplant Recipient: Infections and Malignancies,
 5. Medical Management of the Kidney Transplant Recipient: Cardiovascular Disease and Metabolic Abnormalities
 6. Chronic Allograft Injury
 7. Recurrent Disease in Kidney Transplantation
 8. Outcomes of Renal Transplantation